

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number		10684226
Filing Date		2003-10-10
First Named Inventor	RUTHERFORD	
Art Unit	3732	
Examiner Name	Cary E. O'Connor	
Attorney Docket Number	32087/1010	

7.26.07

CEO	1	GIUSTI et al., "New Biolized Polymers for Cardiovascular Applications," Life Support Syst. 3(Suppl 1):476-80 (1985).	<input type="checkbox"/>
CEO	2	MERRILL, "Poly(Ethylene Oxide) Star Molecules: Synthesis, Characterization, and Applications in Medicine and Biology," J. Biomater. Sci. Polym. Ed. 5(1-2):1-11 (1993).	<input type="checkbox"/>
CEO	3	RICORDI et al., "Renal Subcapsular Transplantation of Clusters of Hepatocytes in Conjunction with Pancreatic Islets," Transplantation 45(6):1148-51 (1988).	<input type="checkbox"/>
CEO	4	SCHMOLKA, "Artificial Skin. I. Preparation and Properties of Pluronic F-127 Gels for Treatment of Burns," J. Biomed. Mater. Res. 6(6):571-82 (1972).	<input type="checkbox"/>
CEO	5	VACANTI et al., "Tissue-engineered Growth of Bone and Cartilage," Transplantation Proc. 25(1):1019-21 (1993).	<input type="checkbox"/>

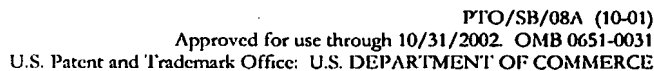
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Sheet 1 of 11

U.S. PATENT DOCUMENTS

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/OC/	1.	US-2002/0119180 A1	08-29-2002	YELICK et al.	
	2.	US-2002/0137812 A1	09-26-2002	CHOW et al.	
	3.	US-2003/0031696 A1	02-13-2003	BAUM et al.	
	4.	US-4,137,921	02-06-1979	OKUZUMI et al.	
	5.	US-4,166,800	09-04-1979	FONG	
	6.	US-4,181,983	01-08-1980	KULKARNI	
	7.	US-4,243,775	01-06-1981	ROSENSAFT et al.	
	8.	US-4,279,249	07-21-1981	VERT et al.	
	9.	US-4,300,565	11-17-1981	ROSENSAFT et al.	
	10.	US-4,347,234	08-31-1982	WAHLIG et al.	
	11.	US-4,384,975	05-24-1983	FONG	
	12.	US-4,390,519	06-28-1983	SAWYER	
	13.	US-4,394,370	07-19-1983	JEFFERIES	
	14.	US-4,409,332	10-11-1983	JEFFERIES et al.	
	15.	US-4,530,449	07-23-1985	NOZAWA et al.	
	16.	US-4,538,603	09-03-1985	PAWELCHAK et al.	
	17.	US-4,539,981	09-10-1985	TUNC	
	18.	US-4,563,489	01-07-1986	URIST	
	19.	US-4,568,559	02-04-1986	NUWAYSER et al.	
	20.	US-4,578,384	03-25-1986	HOLLINGER	
	21.	US-4,585,797	04-29-1986	CIOCA	
	22.	US-4,596,574	06-24-1986	URIST	
	23.	US-4,623,588	11-18-1986	NUWAYSER et al.	
	24.	US-4,703,108	10-27-1987	SILVER et al.	
	25.	US-4,741,337	05-03-1988	SMITH et al.	
	26.	US-4,744,365	05-17-1988	KAPLAN et al.	
	27.	US-4,795,804	01-03-1989	URIST	
	28.	US-4,818,542	04-04-1989	DELUCA et al.	
	29.	US-4,837,285	06-06-1989	BERG et al.	
	30.	US-4,839,130	06-13-1989	KAPLAN et al.	
	31.	US-4,844,854	07-04-1989	KAPLAN et al.	
	32.	US-4,877,864	10-31-1989	WANG et al.	
	33.	US-4,889,119	12-26-1989	JAMIOLKOWSKI et al.	
	34.	US-4,898,186	02-06-1990	IKADA et al.	
	35.	US-4,898,734	02-06-1990	MATHIOWITZ et al.	
	36.	US-4,916,193	04-10-1990	TANG et al.	
	37.	US-4,938,763	07-03-1990	DUNN et al.	
	38.	US-4,961,707	10-09-1990	MAGNUSSON et al.	
/OC/	39.	US-4,968,590	11-06-1990	KUBERASAMPATH et al.	

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/OC/	40.	US-4,975,527	12-04-1990	KOEZUKA et al.	
	41.	US-5,004,602	04-02-1991	HUTCHINSON	
	42.	US-5,007,939	04-16-1991	DELCOMMUNE et al.	
	43.	US-5,011,691	04-30-1991	OPPERMANN et al.	
	44.	US-5,011,692	04-30-1991	FUJIOKA et al.	
	45.	US-5,013,649	05-07-1991	WANG et al.	
	46.	US-5,037,639	08-06-1991	TUNG	
	47.	US-5,051,272	09-24-1991	HERMES et al.	
	48.	US-5,077,049	12-31-1991	DUNN et al.	
	49.	US-5,080,665	01-14-1992	JARRETT et al.	
	50.	US-5,081,106	01-14-1992	BENTLEY et al.	
	51.	US-5,084,051	01-28-1992	TORMALA et al.	
	52.	US-5,106,748	04-21-1992	WOZNEY et al.	
	53.	US-5,108,753	04-28-1992	KUBERASAMPATH et al.	
	54.	US-5,108,755	04-28-1992	DANIELS et al.	
	55.	US-5,116,738	05-26-1992	WANG et al.	
	56.	US-5,128,136	07-07-1992	BENTLEY et al.	
	57.	US-5,133,755	07-28-1992	BREKKE	
	58.	US-5,141,905	08-25-1992	ROSEN et al.	
	59.	US-5,143,730	09-01-1992	FUES et al.	
	60.	US-5,149,691	09-22-1992	RUTHERFORD	
	61.	US-5,162,430	11-10-1992	RHEE et al.	
	62.	US-5,166,058	11-24-1992	WANG et al.	
	63.	US-5,171,217	12-15-1992	MARCH et al.	
	64.	US-5,185,152	02-09-1993	PEYMAN	
	65.	US-5,187,076	02-16-1993	WOZNEY et al.	
	66.	US-5,192,741	03-09-1993	ORSOLINI et al.	
	67.	US-5,197,977	03-30-1993	HOFFMAN, JR. et al.	
	68.	US-5,206,028	04-27-1993	LI	
	69.	US-5,227,157	07-13-1993	MCGINITY et al.	
	70.	US-5,231,169	07-27-1993	CONSTANTZ et al.	
	71.	US-5,250,584	10-05-1993	IKADA et al.	
	72.	US-5,268,167	12-07-1993	TUNG	
	73.	US-5,268,178	12-07-1993	CALHOUN et al.	
	74.	US-5,271,961	12-21-1993	MATHIOWITZ et al.	
	75.	US-5,278,201	01-11-1994	DUNN et al.	
	76.	US-5,278,202	01-11-1994	DUNN et al.	
	77.	US-5,281,419	01-25-1994	TUAN et al.	
/OC/	78.	US-5,288,496	02-22-1994	LEWIS	

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/OC/	79.	US-5,308,623	05-03-1994	FUES et al.	
	80.	US-5,320,624	06-14-1994	KAPLAN et al.	
	81.	US-5,324,307	06-28-1994	JARRETT et al.	
	82.	US-5,324,519	06-28-1994	DUNN et al.	
	83.	US-5,324,520	06-28-1994	DUNN et al.	
	84.	US-5,350,580	09-27-1994	MUCHOW et al.	
	85.	US-5,360,610	11-01-1994	TICE et al.	
	86.	US-5,366,508	11-22-1994	BREKKE	
	87.	US-5,366,733	11-22-1994	BRIZZOLARA et al.	
	88.	US-5,366,734	11-22-1994	HUTCHINSON	
	89.	US-5,376,636	12-27-1994	RUTHERFORD et al.	
	90.	US-5,437,857	08-01-1995	TUNG	
	91.	US-5,460,803	10-24-1995	TUNG	
	92.	US-5,534,244	07-09-1996	TUNG	
	93.	US-5,562,895	10-08-1996	TUNG	
	94.	US-5,833,954	11-10-1998	CHOW et al.	
	95.	US-5,993,786	11-30-1999	CHOW et al.	
	96.	US-6,000,341	12-14-1999	TUNG	
	97.	US-6,001,897	12-14-1999	DICKENS	
	98.	US-6,056,930	05-02-2000	TUNG	
	99.	US-6,114,408	09-05-2000	DICKENS	
	100.	US-6,187,838	02-13-2001	DICKENS	
	101.	US-6,206,959	03-27-2001	DICKENS	
	102.	US-6,210,759	04-03-2001	DICKENS	
	103.	US-6,281,256	08-28-2001	HARRIS et al.	
	104.	US-6,398,859	06-04-2002	DICKENS et al.	
	105.	US-6,413,498	07-02-2002	MALMAGRO	
	106.	US-6,472,210	10-29-2002	HOLY et al.	
/OC/	107.	US-6,793,725	09-21-2004	CHOW et al.	

FOREIGN PATENT DOCUMENTS						
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/OC/	108.	WO	00/56375	A2	MURPHY et al.	
/OC/	109.	WO	02/07679	A2	SHI et al.	

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/OC/	110.	ALLCOCK et al., "Poly[(amino acid ester)phosphazenes] As Substrates for the Controlled Release of Small Molecules," <i>Biomat.</i> 15(8):563-9 (1994) (Abstract only)	
	111.	ALSBERG et al., "Engineering Growing Tissues," <i>Proc. Nat'l Acad. Sci. U.S.A.</i> 99(19):12025-30 (2002)	
	112.	AMIJI & PARK, "Surface modification of polymeric biomaterials with poly(ethylene oxide), albumin, and heparin for reduced thrombogenicity," <i>J. Biomater. Sci. Polym. Ed.</i> 4(3):217-34 (1993) (Abstract only)	
	113.	ANSELME et al., Inhibition of calcification in vivo by acyl azide cross-linking of a collagen-glycosaminoglycan sponge. <i>Matrix</i> 12(4):264-73 (1992) (Abstract only)	
	114.	ATALA et al., Endoscopic treatment of vesicoureteral reflux with a chondrocyte-alginate suspension. <i>J. Urol.</i> 152(2 Pt 2):641-3; (1994) (Abstract only)	
	115.	ATALA et al., "Injectable alginate seeded with chondrocytes as a potential treatment for vesicoureteral reflux," <i>J. Urol.</i> 150(2 Pt 2):745-7 (1993) (Abstract only)	
	116.	BELL et al., "Living tissue formed in vitro and accepted as skin-equivalent tissue of full thickness," <i>Science</i> 211(4486):1052-4 (1981) (Abstract only)	
	117.	BLAIR et al., "Clinical trial of calcium alginate haemostatic swabs," <i>Br. J. Surg.</i> 77(5):568-70 (1990) (Abstract only)	
	118.	CAVALLARO et al., "The nucleotide sequence of a complementary DNA encoding <i>Flaveria bidentis</i> carbonic anhydrase," <i>FEBS Lett.</i> 350(2-3):216-8 (1994) (Abstract only)	
	119.	CLARKSON "Sponge implants for flat breasts," <i>Proc. R. Soc. Med.</i> , 53:880-1 (1960)	
	120.	COMPTON et al., "Skin regenerated from cultured epithelial autografts on full-thickness burn wounds from 6 days to 5 years after grafting. A light, electron microscopic and immunohistochemical study," <i>Lab. Invest.</i> , 60(5):600-12 (1989) (Abstract only)	
	121.	DANIELS et al., "Evaluation of absorbable poly(ortho esters) for use in surgical implants," <i>J. Appl. Biomater.</i> , 5(1):51-64 (1994) (Abstract only)	
	122.	DELUSTRO et al., "Immune responses to allogeneic and xenogeneic implants of collagen and collagen derivatives," <i>Clin. Orthop. Relat. Res.</i> , (260):263-79 (1990) (Abstract only)	
/OC/	123.	DIXIT, "Development of a bioartificial liver using isolated hepatocytes," <i>Artif. Organs</i> , 18(5):371-84 (1994) (Abstract only)	

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/OC/	124.	DUCHEYNE & HEALY, "The effect of plasma-sprayed calcium phosphate ceramic coatings on the metal ion release from porous titanium and cobalt-chromium alloys," <i>J. Biomed. Mater. Res.</i> , 22(12):1137-63 (1988) (Abstract only)	
	125.	DULCEY et al., "Deep UV photochemistry of chemisorbed monolayers: patterned coplanar molecular assemblies," <i>Science</i> , 252(5005):551-4 (1991) (Abstract only)	
	126.	EMBLETON & TIGHE, "Polymers for biodegradable medical devices. X. Microencapsulation studies: control of poly-hydroxybutyrate-hydroxyvalerate microcapsules porosity via polycaprolactone blending," <i>J. Microencapsul.</i> , 10(3):341-52 (1993) (Abstract only)	
	127.	EMERICH et al., "A novel approach to neural transplantation in Parkinson's disease: use of polymer-encapsulated cell therapy," <i>Neurosci. Biobehav. Rev.</i> , 16(4):437-47 (1992) (Abstract only)	
	128.	ENGELBERG & KOHN, "Physico-mechanical properties of degradable polymers used in medical applications: a comparative study," <i>Biomaterials</i> , 12(3):292-304 (1991) (Abstract only)	
	129.	FRAZZA & SCHMITT, "A new absorbable suture," <i>J. Biomed. Mater. Res.</i> , 5(2):43-58 (1971) (Abstract only)	
	130.	GIUNCHEDI et al., "Cellulose acetate butyrate and polycaprolactone for ketoprofen spray-dried microsphere preparation," <i>J. Microencapsul.</i> , 11(4):381-93 (1994) (Abstract only)	
	131.	GOLDBERG et al., "Cloning and expression of a collagen-analog-encoding synthetic gene in <i>Escherichia coli</i> ," <i>Gene</i> , 80(2):305-14 (1989) (Abstract only)	
	132.	GOMBOTZ & PETTIT, "Biodegradable polymers for protein and peptide drug delivery," <i>Bioconj. Chem.</i> , 6(4):332-51 (1995) (Abstract only)	
	133.	GREEN et al., "Growth of cultured human epidermal cells into multiple epithelia suitable for grafting," <i>Proc. Natl. Acad. Sci. U S A</i> , 76(11):5665-8 (1979)	
	134.	GUÉNARD et al., "Syngeneic Schwann Cells Derived from Adult Nerves Seeded in Semipermeable Guidance Channels Enhance Peripheral Nerve Regeneration," <i>J. Neurosci.</i> 12(9):3310-20 (1992)	
	135.	HANSBROUGH et al., "Evaluation of a biodegradable matrix containing cultured human fibroblasts as a dermal replacement beneath meshed skin grafts on athymic mice," <i>Surgery</i> , 111(4):438-46 (1992) (Abstract only)	
/OC/	136.	HARRIS et al., Open pore biodegradable matrices formed with gas foaming. <i>J. Biomed. Mat. Res.</i> 42(3):396-402 (1998) (Abstract only)	

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/OC/	137.	HEIMBACH et al., "Artificial Dermis for Major Burns," <i>Ann. Surg.</i> 208(3):313-19 (1988)	
	138.	HELLER, "Controlled drug release from poly(ortho esters)," <i>Ann. N Y Acad. Sci.</i> , 446:51-66 (1985)	
	139.	HILL-WEST et al., "Efficacy of a resorbable hydrogel barrier, oxidized regenerated cellulose, and hyaluronic acid in the prevention of ovarian adhesions in a rabbit model," <i>Fertil. Steril.</i> , 62(3):630-4 (1994) (Abstract only)	
	140.	HYNES et al., "Selective Expression of an Endogenous Lactose-Binding Lectin Gene in Subsets of Central and Peripheral Neurons," <i>J. Neurosci.</i> 10(3):1004-13 (1990)	
	141.	JARCHO, "Calcium phosphate ceramics as hard tissue prosthetics," <i>Clin. Orthop. Relat. Res.</i> , (157):259-78 (1981)	
	142.	KALLEN et al., "Effect of encephalitogenic protein on migration in agarose of leukocytes from patients with multiple sclerosis. Variable effect of the antigen in a large dose range, with a literature review," <i>Acta. Neurol. Scand.</i> , 55(1):33-46 (1977) (Abstract only)	
	143.	KAPLAN & MASON, JR., "Antimicrobial agents: resistance patterns of common pathogens," <i>Pediatr. Infect. Dis. J.</i> , 13(11):1050-3 (1994)	
	144.	KASAI et al., "Is the biological artificial liver clinically applicable? A historic review of biological artificial liver support systems," <i>Artif. Organs</i> , 18(5):348-54 (1994) (Abstract only)	
	145.	KATZ & TURNER, "Evaluation of tensile and absorption properties of polyglycolic acid sutures," <i>Surg. Gynecol. Obstet.</i> , 131(4):701-16 (1970)	
	146.	KOIDE et al., "A new type of biomaterial for artificial skin: dehydrothermally cross-linked composites of fibrillar and denatured collagens," <i>J. Biomed. Mater. Res.</i> , 27(1):79-87 (1993) (Abstract only)	
	147.	KUNG et al., "Surface modifications of alginate/poly(L-lysine) microcapsular membranes with poly(ethylene glycol) and poly(vinyl alcohol)," <i>Biomaterials</i> , 16(8):649-55 (1995) (Abstract only)	
	148.	LANGER & VACANTI, "Tissue engineering," <i>Science</i> , 260(5110):920-6 (1993) (Abstract only)	
↓	149.	LAURENCIN & LANGER, "Polymeric controlled release systems: new methods for drug delivery," <i>Clin. Lab. Med.</i> , 7(2):301-23 (1987) (Abstract only)	
/OC/	150.	LAURENCIN et al., "Use of polyphosphazenes for skeletal tissue regeneration," <i>J. Biomed. Mater. Res.</i> , 27(7):963-73 (1993) (Abstract only)	

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/OC/	151.	LEENSLAG et al., Resorbable materials of poly(L-lactide). VII. In vivo and in vitro degradation. <i>Biomaterials</i> , 8(4):311-4 (1987) (Abstract only)	
	152.	LEMONS et al., "Significance of the porosity and physical chemistry of calcium phosphate ceramics/Orthopedic Uses," <i>Ann. N.Y. Acad. Sci.</i> , 523:278-82 (1988)	
	153.	LENTZ, "Polymer-induced membrane fusion: potential mechanism and relation to cell fusion events," <i>Chem. Phys. Lipids</i> , 73(1-2):91-106 (1994) (Abstract only)	
	154.	LÉVESQUE et al., "Maintenance of Long-Term Secretory Function by Microencapsulated Islets of Langerhans," <i>Endocrinol.</i> 130(2):644-50 (1992)	
	155.	LIM & SUN, "Microencapsulated islets as bioartificial endocrine pancreas," <i>Science</i> , 210(4472):908-10 (1980) (Abstract only)	
	156.	LOM et al., "A versatile technique for patterning biomolecules onto glass coverslips," <i>J. Neurosci. Methods</i> , 50(3):385-97 (1993) (Abstract only)	
	157.	LOPEZ et al., "An improved Bradford protein assay for collagen proteins," <i>Clin. Chim. Acta.</i> , 220(1):91-100 (1993) (Abstract only)	
	158.	LORA et al., "Biocompatible polyphosphazenes by radiation-induced graft copolymerization and heparinization," <i>Biomaterials</i> , 12(3):275-80 (1991) (Abstract only)	
	159.	MASSIA & HUBBELL, "Human endothelial cell interactions with surface-coupled adhesion peptides on a nonadhesive glass substrate and two polymeric biomaterials," <i>J. Biomed. Mater. Res.</i> , 25(2):223-42 (1991) (Abstract only)	
	160.	MATSUDA & MOGHADDAM, "Development of thermosensitive peptidyl cell substrate synthesis and artificial fibrin glue," <i>ASAIO Trans.</i> , 37(3):M196-7 (1991) (Abstract only)	
	161.	MCGRATH & CHUA, "The autumn greening of Cold Spring Harbor," <i>New Biol.</i> , 1992. 4(2):107-14	
	162.	MIKOS et al., "Preparation and Characterization of Poly(L-Lactic Acid) Foams," <i>Polymer</i> 35(5):1068-77 (1994) (Abstract only)	
	163.	MIKOS et al., "Preparation of poly(glycolic acid) bonded fiber structures for cell attachment and transplantation," <i>J. Biomed. Mater. Res.</i> , 27(2):183-9 (1993) (Abstract only)	
↓	164.	MOONEY et al., "Cytoskeletal Filament Assembly and the Control of Cell Spreading and Function by Extracellular Matrix," <i>J. Cell Sci.</i> 108(Pt 6):2311-20 (1995)	
/OC/	165.	MOONEY et al., "Extracellular Matrix Controls Tubulin Monomer Levels in Hepatocytes by Regulating Protein Turnover," <i>Mol. Biol. Cell</i> 5(12):1281-8 (1994)	

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/OC/	166.	MOONEY et al., "Switching from differentiation to growth in hepatocytes: control by extracellular matrix," <i>J. Cell Physiol.</i> , 151(3):497-505 (1992) (Abstract only)	
	167.	MOONEY et al., "Biodegradable sponges for hepatocyte transplantation," <i>J. Biomed. Mater. Res.</i> , 29(8):959-65 (1995) (Abstract only)	
	168.	MOONEY et al., "Design and fabrication of biodegradable polymer devices to engineer tubular tissues," <i>Cell Transplant.</i> , 3(2):203-10 (1994) (Abstract only)	
	169.	MOONEY et al., "Engineering dental pulp-like tissue in vitro," <i>Biotechnol. Prog.</i> , 12(6):865-8 (1996) (Abstract only)	
	170.	MOONEY et al., "Novel approach to fabricate porous sponges of poly(D,L-lactic-co-glycolic acid) without the use of organic solvents," <i>Biomaterials</i> , 17(14):1417-22 (1996) (Abstract only)	
	171.	MORIKAWA et al., "Enhancement of therapeutic effects of recombinant interleukin 2 on a transplantable rat fibrosarcoma by the use of a sustained release vehicle, pluronic gel," <i>Cancer Res.</i> , 47(1):37-41 (1987)	
	172.	MURPHY & MOONEY, "Bioinspired growth of crystalline carbonate apatite on biodegradable polymer substrata," <i>JACS</i> 124:1910-7 (2002) (Abstract only)	
	173.	NAKASHIMA, "Induction of Dentine in Amputated Pulp of Dogs by Recombinant Human Bone Morphogenetic Proteins-2 and -4 with Collagen Matrix," <i>Arch. Or. Biol.</i> 39(12):1085-89 (1994) (Abstract only)	
	174.	NAKASHIMA, "Induction of dentin formation on canine amputated pulp by recombinant human bone morphogenetic proteins (BMP)-2 and -4," <i>J. Dent. Res.</i> 73:1515-1522 (1994) (Abstract only)	
	175.	O'SHEA et al., "Prolonged survival of transplanted islets of Langerhans encapsulated in a biocompatible membrane," <i>Biochim. Biophys. Acta.</i> , 804(1):133-6 (1984) (Abstract only)	
	176.	PEPPAS & LANGER, "New challenges in biomaterials," <i>Science</i> , 263(5154):1715-20 (1994) (Abstract only)	
	177.	PIERSCHBACHER & RUOSLAHTI, "Cell attachment activity of fibronectin can be duplicated by small synthetic fragments of the molecule," <i>Nature</i> , 309(5963):30-3 (1984) (Abstract only)	
	178.	POLK et al., "Controlled release of albumin from chitosan-alginate microcapsules," <i>J. Pharm. Sci.</i> , 83(2):178-85 (1994) (Abstract only)	
/OC/	179.	PRIME & WHITESIDES, "Self-assembled organic monolayers: model systems for studying adsorption of proteins at surfaces," <i>Science</i> , 252(5010):1164-7 (1991) (Abstract only)	

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/OC/	180.	RAZAVI et al., "Clinical applications of a polyphosphazene-based resilient denture liner," <i>J. Prosthodont.</i> , 2(4):224-7 (1993) (Abstract only)	
	181.	RUOSLAHTI & PIERSCHBACHER, "New perspectives in cell adhesion: RGD and integrins," <i>Science</i> , 238(4826):491-7 (1987) (Abstract only)	
	182.	RUTHERFORD & GU, "Treatment of inflamed ferret dental pulps with recombinant bone morphogenetic protein-7," <i>Eu J Or Sci</i> , 108(3):202-6 (2000) (Abstract only)	
	183.	RUTHERFORD, "BMP-7 gene transfer to inflamed ferret dental pulps," <i>Euro. J. Oral Science</i> , 109(6) 422-444 (2001) (Abstract only)	
	184.	RUTHERFORD, et al., "Induction of reparative dentine formation in monkeys by recombinant human osteogenic protein-1," <i>Arch. Oral Biol.</i> , 38(7):571-6 (1993) (Abstract only)	
	185.	RUTHERFORD et al., "Platelet-derived growth factor and dexamethasone combined with a collagen matrix induce regeneration of the periodontium in monkeys," <i>J. Clin. Periodontol.</i> , 20(7):537-44 (1993) (Abstract only)	
	186.	RUTHERFORD et al., "Synergistic effects of dexamethasone on platelet-derived growth factor mitogenesis in vitro," <i>Arch. Oral Biol.</i> , 37(2):139-45 (1992) (Abstract only)	
	187.	RUTHERFORD et al., "The time-course of the induction of reparative dentine formation in monkeys by recombinant human osteogenic protein-1," <i>Arch. Oral Biol.</i> , 39(10):833-8 (1994) (Abstract only)	
	188.	RUTHERFORD et al., "Use of bovine osteogenic protein to promote rapid osseointegration of endosseous dental implants," <i>Int. J. Oral Maxillofac. Implants</i> , 7(3): 297-301 (1992) (Abstract only)	
	189.	RUTHERFORD et al., "Transdental stimulation of reparative dentine formation by osteogenic protein-1 in monkeys," <i>Archs. Oral Biol.</i> 40: 681-683 (1995) (Abstract only)	
	190.	SAWHNEY et al., "Interfacial photopolymerization of poly(ethylene glycol)-based hydrogels upon alginate-poly(l-lysine) microcapsules for enhanced biocompatibility," <i>Biomaterials</i> , 14(13):1008-16 (1993) (Abstract only)	
	191.	SAWHNEY et al., "Optimization of photopolymerized bioerodible hydrogel properties for adhesion prevention," <i>J. Biomed. Mater. Res.</i> , 28(7):831-8 (1994) (Abstract only)	
	↓	192.	SCHWARTZ & ERICH, "Experimental study of polyvinyl-formal (ivalon) sponge as a substitute for tissue," <i>Plast. Reconstr. Surg.</i> , 25:1-14 (1960)
/OC/	193.	SERWER, "Agarose gel electrophoresis of bacteriophages and related particles," <i>J. Chromatogr.</i> , 418:345-57 (1987) (Abstract only)	

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/OC/	194.	SINGHVI et al., Engineering cell shape and function. <i>Science</i> , 264(5159):696-8 (1994) (Abstract only)	
	195.	SLOAN et al., "Stimulation of the rat dentine-pulp complex by bone morphogenetic protein-7 in vitro," <i>Arch Or Biol</i> , 45:173-177 (2000) (Abstract only)	
	196.	SMIDSRD & SKJAK-BRAEK, "Alginate as immobilization matrix for cells," <i>Trends Biotechnol</i> , 8(3):71-8 (1990) (Abstract only)	
	197.	SOON-SHIONG et al., Insulin independence in a type 1 diabetic patient after encapsulated islet transplantation. <i>Lancet</i> , 343(8903):950-1 (1994) (Abstract only)	
	198.	STERN et al., "Histologic study of artificial skin used in the treatment of full-thickness thermal injury," <i>J. Burn Care Rehabil</i> , 11(1):7-13 (1990) (Abstract only)	
	199.	STOKER et al., "Designer microenvironments for the analysis of cell and tissue function," <i>Curr. Opin. Cell Biol</i> , 2(5):864-74 (1990)	
	200.	SUN et al., "Injectable microencapsulated islet cells as a bioartificial pancreas," <i>Appl. Biochem. Biotechnol</i> , 10:87-99 (1984) (Abstract only)	
	201.	URRY et al., "Mechanochemical Coupling in Synthetic Polypeptides by Modulation of an Inverse Temperature Transition," <i>Proc. Nat'l Acad. Sci. U.S.A.</i> 85(10):3407-11 (1988)	
	202.	URRY et al., "Molecular biophysics of elastin structure, function and pathology," <i>Ciba Found. Symp.</i> , 192:4-22 (1995) (Abstract only)	
	203.	URRY et al., "A method for fixation of elastin demonstrated by stress/strain characterization," <i>Biochem. Biophys. Res. Commun.</i> , 151(2):686-92 (1988) (Abstract only)	
	204.	VACANTI et al., "Selective cell transplantation using bioabsorbable artificial polymers as matrices," <i>J. Pediatr. Surg.</i> , 23(1 Pt 2):3-9 (1988)	
	205.	VAINIONPAA et al., "Strength and strength retention in vitro, of absorbable, self-reinforced polyglycolide (PGA) rods for fracture fixation," <i>Biomaterials</i> , 8(1):46-8 (1987) (Abstract only)	
	206.	WANG, "Implantable reservoir for supplemental insulin delivery on demand by external compression," <i>Biomaterials</i> , 10(3):197-201 (1989) (Abstract only)	
	207.	YANNAS et al., "Synthesis and Characterization of a Model Extracellular Matrix that Induces Partial Regeneration of Adult Mammalian Skin," <i>Proc. Nat'l Acad. Sci. U.S.A.</i> 86(3):933-7 (1989)	
/OC/	208.	YANNAS et al., "Prompt, long-term functional replacement of skin," <i>Trans. Am. Soc. Artif. Intern. Organs</i> , 27:19-23 (1981)	

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/OC/	209.	YOUNG et al., "Tissue Engineering of Complex Tooth Structures on Biodegradable Polymer Scaffolds," <i>J. Dent. Res.</i> 81(10):695-700 (2002)	

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